

Amendments to the Claims

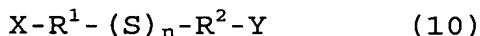
This listing of claims will replace all prior listings of claims in the application.

Listing of Claims

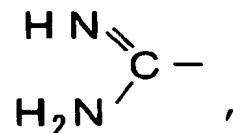
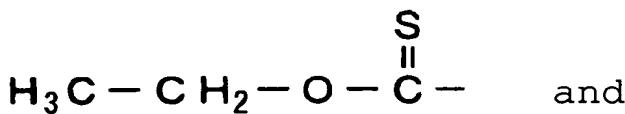
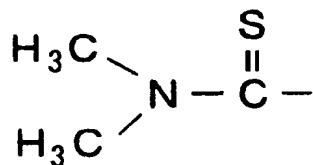
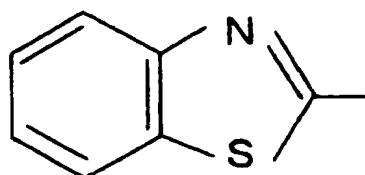
1.-3. (Canceled)

4. (Currently Amended) A copper electrolytic solution according to ~~Claim 1~~claim 10, wherein said copper electrolytic solution further contains an organic sulfur compound.

5. (Currently Amended) The copper electrolytic solution according to Claim 4, wherein said organic sulfur compound is a compound selected from the group consisting of compounds represented by formula(10) or and (11) below:



wherein in formulae (10) and (11), R¹, R² and R³ are alkylene groups with 1 through 8 carbon atoms, R⁴ is selected from the group consisting of hydrogen,

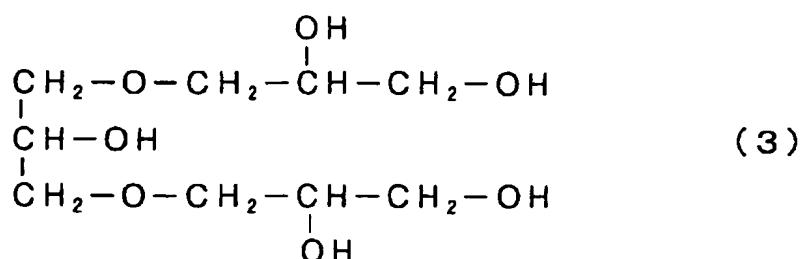
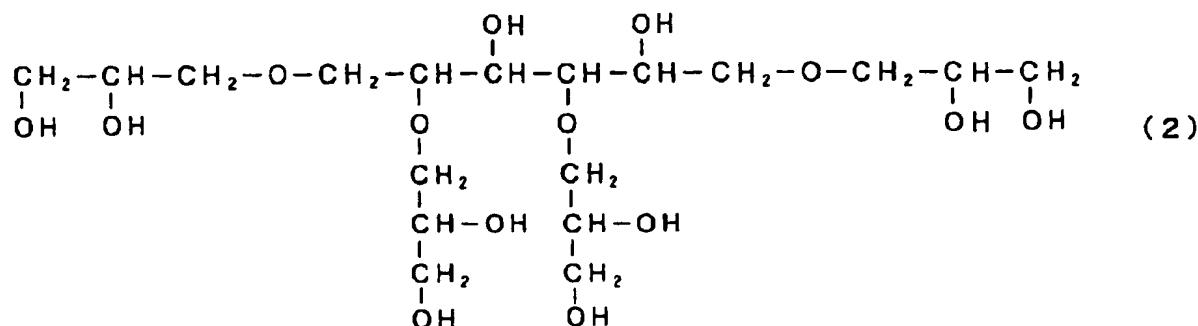


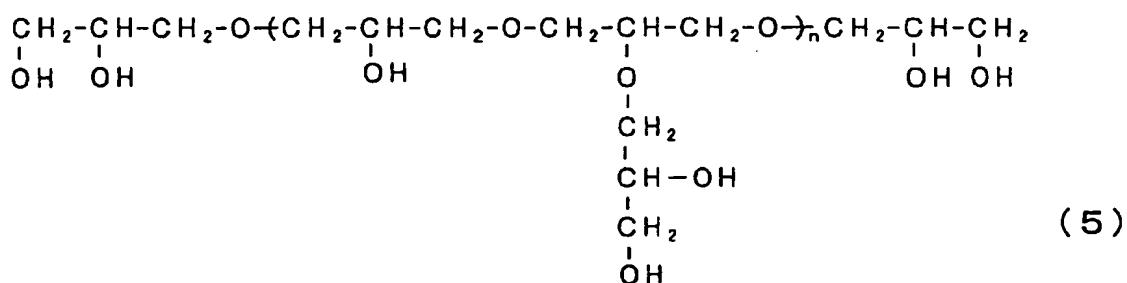
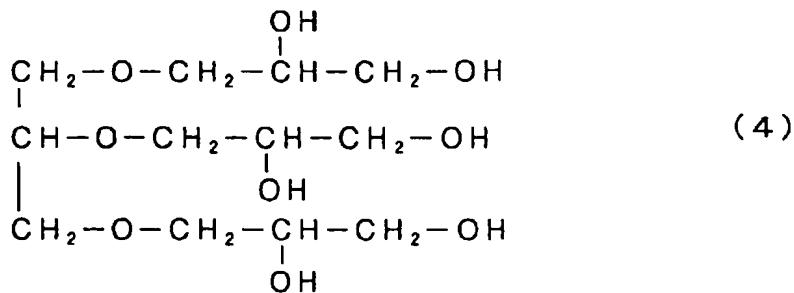
X is selected from the group consisting of hydrogen, a sulfonic acid group, a phosphonic acid group and, an alkali metal salt group or and an ammonium salt group of an acid

selected from the group consisting of sulfonic acid or and phosphonic acid, Y is selected from the group consisting of a sulfonic acid group, a phosphonic acid group and an alkali metal salt group of an acid selected from the group consisting of sulfonic acid or and phosphonic acid, Z is hydrogen or an alkali metal, and n is 2 or 3.

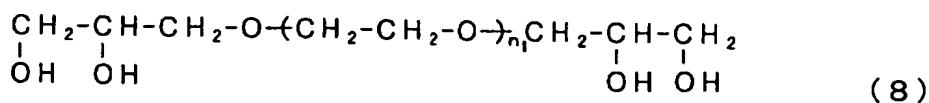
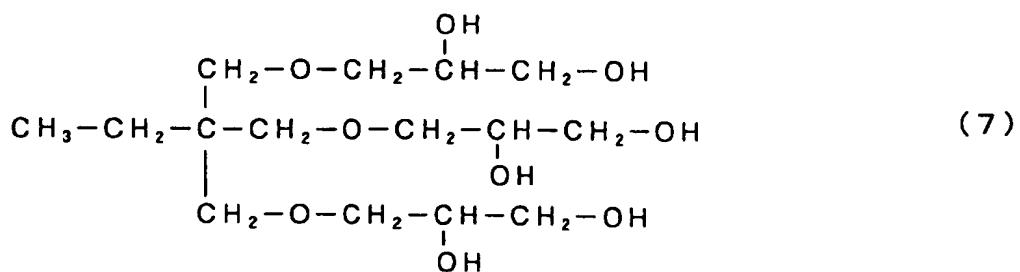
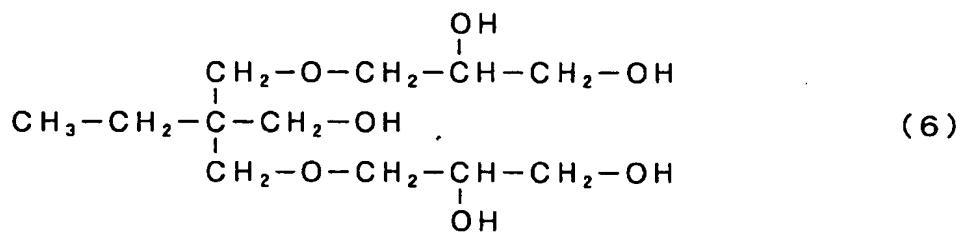
6.-9. (Cancelled)

10. (New) A copper electrolytic solution containing copper and an additive selected from the group consisting of at least one compound represented by chemical formulae (2) through (9) below, which is obtained by an addition reaction in which water is added to a compound having in a molecule at least one epoxy group:

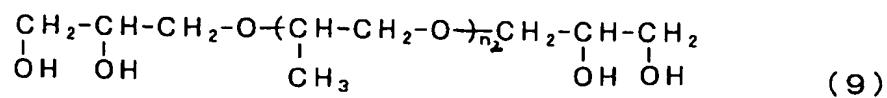




wherein n is an integer of 1 to 5;



wherein n₁ is an integer of 1 to 22; and



wherein n_2 is an integer of 1 to 3.